

## BIOL3301 - Classical and Molecular Genetics

[BIOL 3301](#) Classical and Molecular Genetics (3 semester credit hours) The phenomenon of heredity, its cytological and molecular basis; gene expression and transfer of genetic information, with major focus on bacterial and model eukaryotic systems; genetic recombination and chromosome mapping; tetrad analysis; mutations and mutagenesis; genetic interactions; application of recombinant DNA techniques to genetic analysis. Prerequisites: [BIOL 2311](#) and ([BIOL 2281](#) or [CHEM 2401](#) or equivalent) and ([CHEM 2323](#) or equivalent). Corequisite: [BIOL 3101](#). (3-0) S